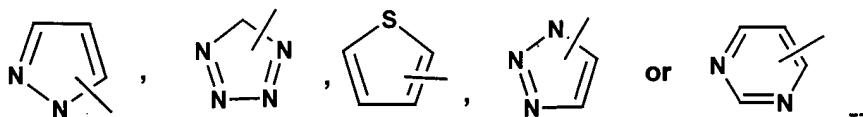


tetrazolyl, pyrazolyl, pyridyl, thiazolyl, pyrimidinyl, imidazole, oxazole, or triazole, $-\text{PO}(\text{R}^{13})(\text{R}^{14})$, (where R^{13} and R^{14} are independently alkyl, aryl, alkoxy, aryloxy, heteroaryl, heteroarylalkyl, heteroaryloxy, heteroarylalkoxy, cycloheteroalkyl, cycloheteroalkylalkyl, cycloheteroalkoxy, or cycloheteroalkylalkoxy); and may be optionally independently substituted with from one to five substituents, which may be the same or different;

including pharmaceutically acceptable salts thereof, prodrugs thereof, and all stereoisomers thereof. --

--71. (Amended) The compound as defined in Claim 64 wherein R^1 is



REMARKS

Claims 1 to 3, 6, 8 to 10, 14, 15, 17, 19, 20, 22, 24 to 31 and new Claims 63 to 74 are present for purposes of prosecution.

Reconsideration of the rejection of this application is respectfully requested in view of the above amendments and the following remarks.

Claim 1 is rejected under 35 USC 112, first paragraph in view of the provisos included in the previously amended Claim 1.

All provisos have been removed from Claims 1 and 64.

Claim 14 and claims dependent thereon are rejected on use of the zig zag symbol. The zig zag symbols have been replaced with the Z group as shown in Claim 1.

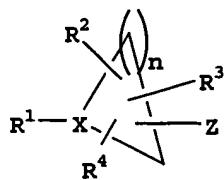
In view of the above, it is believed that all formal objections have been overcome.

Claim 1 and Claim 64 have been amended to include heteroaryl rings (for R^1) as set out on



page 18 of the specification and the group set out in Claim 19.

Applicants' invention as claimed in Claim 1 is directed to a compound having the structure

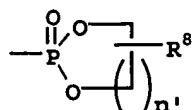


wherein n is 4;

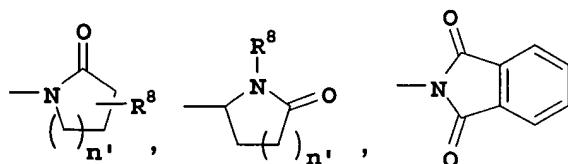
X is N;

Z is a heteroaryl group;

R¹ is alkynyl, alkoxy, alkenyloxy, alkynyoxy, (alkyl or aryl)₃Si (where each alkyl or aryl group is independent), cycloalkenyl, amino, alkylamino, dialkylamino, alkenylamino, alkynylamino, arylalkylamino, cycloheteroalkyl, cycloheteroalkylalkyl, heteroaryl, heteroarylarnino, heteroaryloxy, arylsulfinyl, arylsulfonyl, thio, alkylthio, alkylsulfinyl, alkylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, halogen, haloalkyl, polyhaloalkyl, polyhaloalkoxy, aminothio, aminosulfinyl, aminosulfonyl, alkylsulfonylamino, alkenylsulfonylamino, alkynylsulfonylamino, arylsulfonylamino, heteroarylsulfonylamino, heteroarylaminocarbonyl, hydroxy, acyl, carboxy, alkylcarbonylamino, arylcarbonyloxy, arylcarbonylamino, heteroarylcarbonyloxy, heteroarylcarbonylamino, cyano, nitro, alkenylcarbonylamino, alkynylcarbonylamino, alkylaminocarbonylamino, alkenylaminocarbonylamino, alkynylaminocarbonylamino, arylaminocarbonylamino, heteroarylaminocarbonylamino, alkoxy carbonylamino, alkenyloxycarbonylamino, alkynyloxycarbonylamino, aryloxycarbonylamino, heteroaryloxycarbonylamino, aminocarbonylamino, alkylaminocarbonyloxy, alkoxy carbonylamino, I,I-(alkoxyl or aryloxy)alkyl (where the two aryl or alkyl substituents can be independently defined, or linked to one another to form a ring), S(O)₂R⁶R⁷, -NR⁶(C=NR⁷)alkyl, -NR⁶(C=NR⁷)alkenyl, -NR⁶(C=NR⁷)alkynyl, -NR⁶(C=NR⁷)heteroaryl, -NR⁸(C=NCN)-amino,



pyridine-N-oxide,



(where Q is O or H₂ and n' is 0, 1, 2 or 3) or

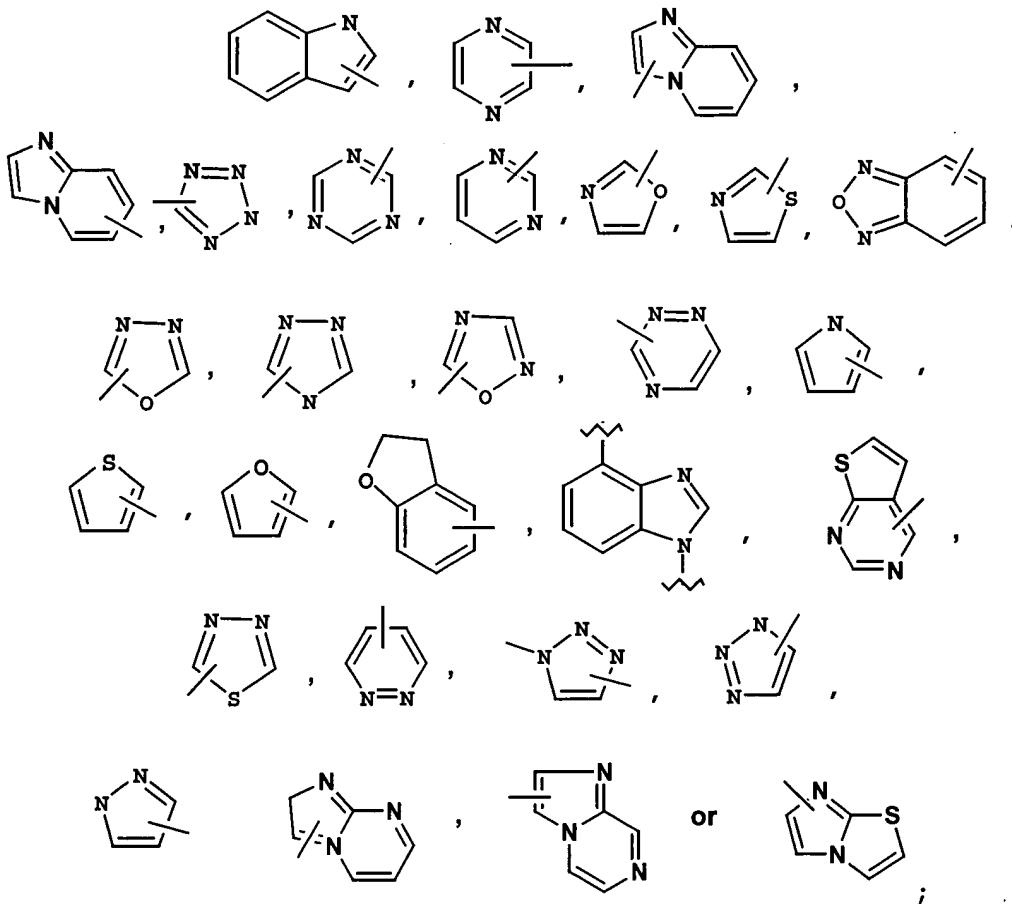
NR^8R^9

$$\text{---C=CH---C(=O)---R}^{8a}$$

; tetrazolyl, pyrazolyl, pyridyl, thiazolyl, pyrimidinyl, imidazole, oxazole, or triazole, $-\text{PO}(\text{R}^{13})(\text{R}^{14})$, (where R^{13} and R^{14} are independently alkyl, aryl, alkoxy, aryloxy, heteroaryl, heteroarylalkyl, heteroaryloxy, heteroarylalkoxy, cycloheteroalkyl, cycloheteroalkylalkyl, cycloheterocalkoxy, or cycloheteroalkyloxy);

$\text{R}^6, \text{R}^7, \text{R}^8, \text{R}^{8a}$ and R^9 are the same or different and are independently hydrogen, alkyl, haloalkyl, aryl, heteroaryl, arylalkyl, cycloalkyl, (cycloalkyl)alkyl, or cycloheteroalkyl;

and R^1 may be unsubstituted or substituted with from one to five substituents;
and wherein the R^1 heteroaryl group is selected from



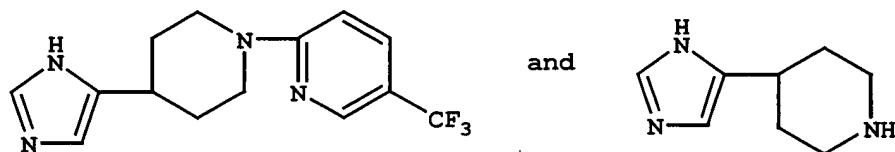
R^2, R^3 and R^4 are the same or different and are independently any of the groups originally set out for R^1 and may be optionally independently substituted with from one to five substituents, which may be the same or different;

including pharmaceutically acceptable salts thereof, prodrugs thereof, and all stereoisomers thereof.

It is submitted that Applicants' invention as now claimed is patentable over all cited references each taken alone or in any combination.

Claims 1-4, 6-10, 12, 13, 15-19, 22, 24, 25, 31, and Claims 64-70 are rejected under 35 U.S.C. 102(b) as being anticipated by Ganellin et al, Chem Abstract 123:198692, in that "pyridine anticipates heteroaryl".

Ganellin et al disclose compounds of the structure



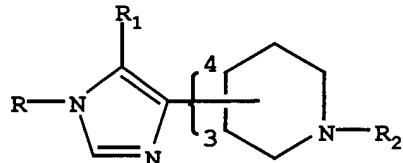
As indicated by the Examiner, Ganelli et al disclose compounds where "the corresponding R¹ is pyridine and Z is imidazole."

Claim 1 has been amended so that pyridyl and H are no longer encompassed by R¹.

In view of the foregoing, it is submitted that Claims 1, 3, 6, 8 to 10, 14, 15, 17, 19, 22, 24, 25 and 31 and Claim 64 are patentable over Ganellin et al.

Claims 1, 2, 4, 6-10, 12, 14-16, 22, 24, 25 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Arrang et al (US Patent 4,707,487) and also under 35 USC 103(a). The Examiner contends that Arrang reads on R¹ as aminocarbonyl.

U.S. Patent No. 4,707,487 to Arrang et al discloses (4-imidazolyl)-piperidines of the formula

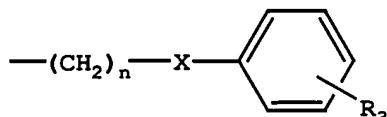


in which

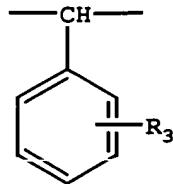
R₁ denotes a hydrogen atom or a methyl or ethyl group,

R denotes a hydrogen atom or a radical R₂, and

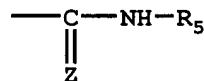
R₂ denotes a linear or branched alkyl group having 1 to 6 carbon atoms; a piperonyl group; a 3-(1-benzimidazolonyl)propyl group; a group of formula



in which n is 0, 1, 2 or 3, X is a single bond or alternatively -O-, -S-, -NH-, -CO-, -CH=CH- or



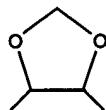
and R₃ is H, CH₃, halogen, CN, CF₃ or an acyl group -COR₄, R₄ being a linear or branched alkyl group having 1 to 6 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms or a phenyl group which can bear a CH₃ or F substituent; or alternatively a group of formula



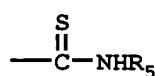
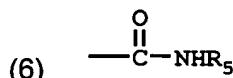
in which Z denotes an O or S atom or a divalent group NH, N-CH₃ or N-CN and R₅ denotes a linear or branched alkyl group having 1 to 8 carbon atoms, a cycloalkyl group having 3 to 6 carbon atoms which can bear a phenyl substituent, a cycloalkyl (3 to 6 C) alkyl (1 to 3 C, linear or branched) group, a phenyl group which can bear a CH₃, halogen or CF₃ substituent, a phenylalkyl (1 to 3 C, linear or branched) group or a naphthyl, adamantyl or p-toluenesulphonyl group, as well as the pharmaceutically acceptable salts thereof.

R₂ in the Arrang et al compounds (correspond to Applicants' R¹ group) includes

- (1) alkyl



- (2) piperonyl (a phenylmethyl group having a fused to the phenyl group -- thus piperonyl is an arylalkyl group)
- (3) 3-(1-benzimidazolonyl)propyl (that is, a cycloheteroalkyl group)
- (4) (a) phenyl
(b) phenylalkyl
(c) phenyl-X- (where X is a bond, O, S, NH, CO, -CH=CH- or phenylmethylenne)
(d) phenyl-X-alkyl
- (5) acyl (COR₄- where R₄ is alkyl, cycloalkyl or phenyl)



where R₅ is alkyl, cycloalkyl, cycloalkylalkyl, phenyl, naphthyl, adamantyl or p-toluenesulfonyl.

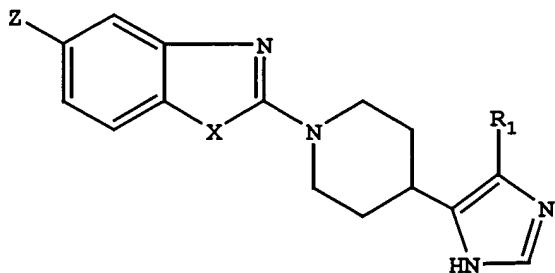
Claim 1 has been amended to delete from the definition of R¹ the term aminocarbonyl.

Thus, the amended definition of R¹ no longer encompasses any of the R₂ groups of Arrang et al.

In view of the foregoing, it is submitted that Applicants' compounds as claimed in Claims 1, 2, 6, 8 to 10, 14-16, 22, 24, 25, 31 and Claim 64 are patentable over Arrang et al.

Claims 1-4, 6-10, 12, 13, 15-18, 22, 24, 25 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Jagham et al (US Patent 5,280,030) and also under 35 USC 103(a). The Examiner contends that this reference discloses a bicyclic ring which anticipates heteroaryl.

Jagham et al disclose a piperidine derivative of formula (I)



in which R₁ represents a hydrogen atom, a linear or branched (C₁₋₆)alkyl group or a cyclo(C₃₋₈)alkyl group, X represents an oxygen atom, a sulphur atom or a group of general formula N-R₃ in which R₃ is a hydrogen atom, or a linear or branched (C₁₋₈)alkyl, cyclo(C₃₋₆)alkyl, cyclo(C₃₋₆)alkylmethyl, (C₁₋₄)alkoxy-(C₁₋₄)alkyl, phenyl, pyridin-4-yl, pyridin-3-yl, pyridin-4-ylmethyl or pyridin-3-ylmethyl group and Z represents a hydrogen or fluorine atom and acid addition salts thereof with pharmaceutically acceptable acids.

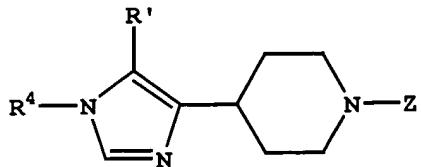
Thus, the Jagham et al bicyclic group linked to the N of the piperidine includes a benzimidazole, a benzthiazole or a benzoxazole.

Please note that Claim 1 has been amended so that the R¹ group no longer includes a benzimidazole, a benzthiazole or a benzoxazole.

In view of the foregoing, it is submitted that Claims 1 to 3, 6, 8 to 10, 12-13, 15-18, 22, 24, 25, 31 and Claims 64-70 are patentable over Jagham et al (5,280,030).

Claims 1, 2, 4, 6, 8-10, 12, 14, 16, 22, 24, 25 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Durant et al (US Patent 5,663,350) and also under 35 USC 103(a). The Examiner contends that Durant teaches that R² can be piperonyl.

Durant et al disclose compounds of the structure



wherein Z is



or R²;

R' is H or C₁-C₄ alkyl;

R¹ is OR², (CH₂)_nR³, C₁-C₂₀ alkyl, C₁-C₂₀ alkenyl, C₁-C₂₀ cycloalkyl, C₁-C₂₀ cycloalkenyl and C₁-C₂₀ alkylaryl;

R² is C₁-C₆ alkyl, piperonyl or (CH₂)_nR³;

R³ is adamantyl methyl, C₁-C₂₀ cycloalkyl, C₁-C₂₀ cycloalkyl phenyl methylene, C₁-C₂₀ dicycloalkyl methylene, diphenyl methylene, Y-C₆H₄-R⁵



R⁴ is H,



or C₁-C₄ alkyl;

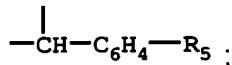
R⁵ is H, CH₃, halogen, CN, CF₃ or COR⁶;

R⁶ is C₁-C₂₀ linear or branched chain alkyl, C₁-C₂₀ cycloalkyl, phenyl or phenyl substituted with 1-3 substituents selected from the group consisting of CH₃ or F;

R⁷ is C₁-C₂₀ linear or branched chain alkyl, C₁-C₂₀ cycloalkyl phenyl methylene, C₁-C₂₀ cycloalkyl alkyl methylene, C₁-C₂₀ dicycloalkyl methylene, phenyl, phenyl substituted with 1-3 substituents selected from the group consisting of CH₃, halogen, C₁-C₃ alkyl (linear or branched);

X is S or O;

Y is a single bond or alternatively -O-, -S-, -NH-, -CO-, -CH=CH- or



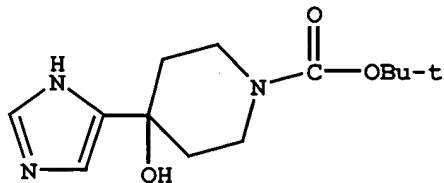
W is O, S, NH, NCH₃ or NCN; and n=0-10.

Applicants' Claim 1 has been amended so that R¹ no longer includes piperonyl.

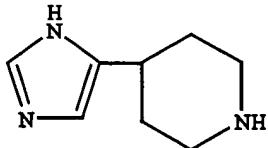
In view of the above amendments to the definition of R¹, it is submitted that Applicants' compounds as claimed in Claims 1 to 3, 6, 8 to 10, 14, 22, 24, 25, 31 and Claims 64-70 are patentable over Durant et al.

Claims 1, 2, 4, 6, 10, 12, 14-16, 22, 24, 25 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Lange et al, Chem Abstract 124:965601. The Examiner contends that Lange et al teach a carboxy group attached to the N of the piperidine ring.

Lange et al disclose compounds of the structure



and

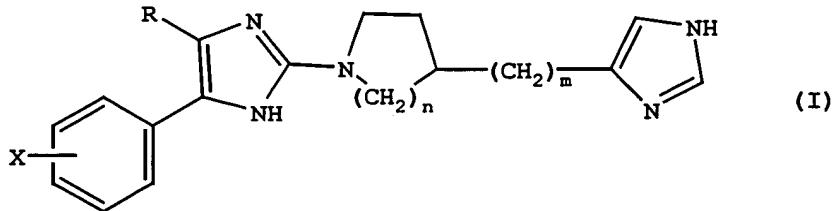


Claim 1 has been amended to delete alkylcarbonyloxy from the definition of R¹.

In view of the above amendments to the definition of R¹, it is submitted that Applicants' compounds as claimed in Claims 1, 2, 6, 8 to 10, 14, 15, 22, 24, 25 and 31 and Claim 64 are patentable over Lange et al.

Claims 1-3, 6, 8-10, 14, 15, 17, 19, 20, 22, 24-27, 31, and 64-74 are rejected under 35 USC 102(b) as being anticipated by Jegham et al and also under 35 USC 13(a).

Jegham et al disclose compounds of the structure



where R represents a hydrogen atom or a phenyl group optionally substituted by a halogen atom or a methyl, methoxy, trifluoromethyl or nitro group; X represents a hydrogen or halogen atom or a methyl, methoxy, trifluoromethyl or nitro group; n is equal to 1 or 2, and m is equal to 0 or 1.

Applicants have amended Claim 1 and Claim 64 so that R¹ includes specific heteroaryl groups none of which includes the 2-imidazolyl present in Jegham et al.

Accordingly, it is submitted Jegham et al does not disclose or suggest Applicants' compounds as now claimed. Thus, it is believed that Claims 1 to 3, 6, 8 to 10, 14, 15, 17, 19, 20, 22, 24 to 27, 31, and 64 to 74 are patentable over Jegham et al.

In view of the foregoing, it is submitted that Claims 1 to 3, 6, 8 to 10, 14, 15, 17, 19, 20, 22, 24 to 31 and Claims 63 to 74 overcome all formal objections and are patentable over all cited prior art. Accordingly, it is believed that the above claims are in condition of allowance.

Applicants note with appreciation that Claims 28 to 30 and 63 are allowable.

Respectfully submitted,



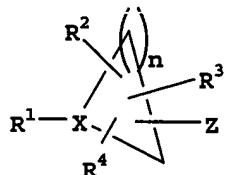
Burton Rodney
Attorney for Applicants
Reg. No. 22,076

Bristol-Myers Squibb Company
Patent Department
P.O. Box 4000
Princeton, NJ 08543-4000
(609) 252-4336

Date: *March 27, 2002*

MARKED-UP VERSION OF AMENDED CLAIMS

--1. (Twice Amended) A compound having the structure

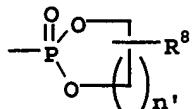


wherein n is 4;

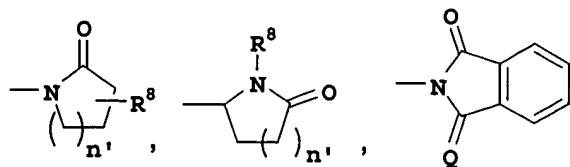
X is N;

Z is a heteroaryl group;

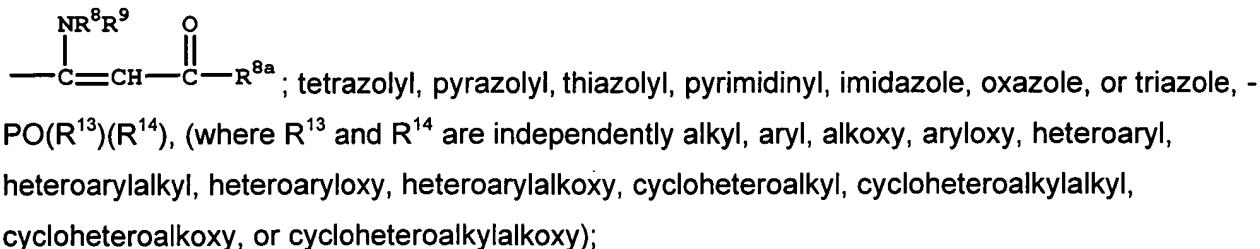
R¹ is alkynyl, alkoxy, alkenyloxy, alkynyloxy, (alkyl or aryl)₃Si (where each alkyl or aryl group is independent), cycloalkenyl, amino, alkylamino, dialkylamino, alkenylamino, alkynylamino, arylalkylamino, cycloheteroalkyl, cycloheteroalkylalkyl, heteroaryl, heteroarylamino, heteroaryloxy, arylsulfinyl, arylsulfonyl, thio, alkylthio, alkylsulfinyl, alkylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, halogen, haloalkyl, polyhaloalkyl, polyhaloalkoxy, aminothio, aminosulfinyl, aminosulfonyl, alkylsulfonylamino, alkenylsulfonylamino, alkynylsulfonylamino, arylsulfonylamino, heteroarylsulfonylamino, heteroarylaminocarbonyl, hydroxy, acyl, carboxy, [aminocarbonyl,] [alkylcarbonyloxy,] alkylcarbonylamino, arylcarbonyloxy, arylcarbonylamino, heteroarylcarbonyloxy, heteroarylcarbonylamino, cyano, nitro, alkenylcarbonylamino, alkynylcarbonylamino, alkylaminocarbonylamino, alkenylaminocarbonylamino, alkynylaminocarbonylamino, arylaminocarbonylamino, heteroarylaminocarbonylamino, alkoxycarbonylamino, alkenyloxycarbonylamino, alkynyloxycarbonylamino, aryloxycarbonylamino, heteroaryloxycarbonylamino, aminocarbonylamino, alkylaminocarbonyloxy, alkoxycarbonylamino, I,I-(alkoxyl or aryloxy)2alkyl (where the two aryl or alkyl substituents can be independently defined, or linked to one another to form a ring), S(O)₂R⁶R⁷, -NR⁶(C=NR⁷)alkyl, -NR⁶(C=NR⁷)alkenyl, -NR⁶(C=NR⁷)alkynyl, -NR⁶(C=NR⁷)heteroaryl, -NR⁸(C=NCN)-amino,



pyridine-N-oxide,



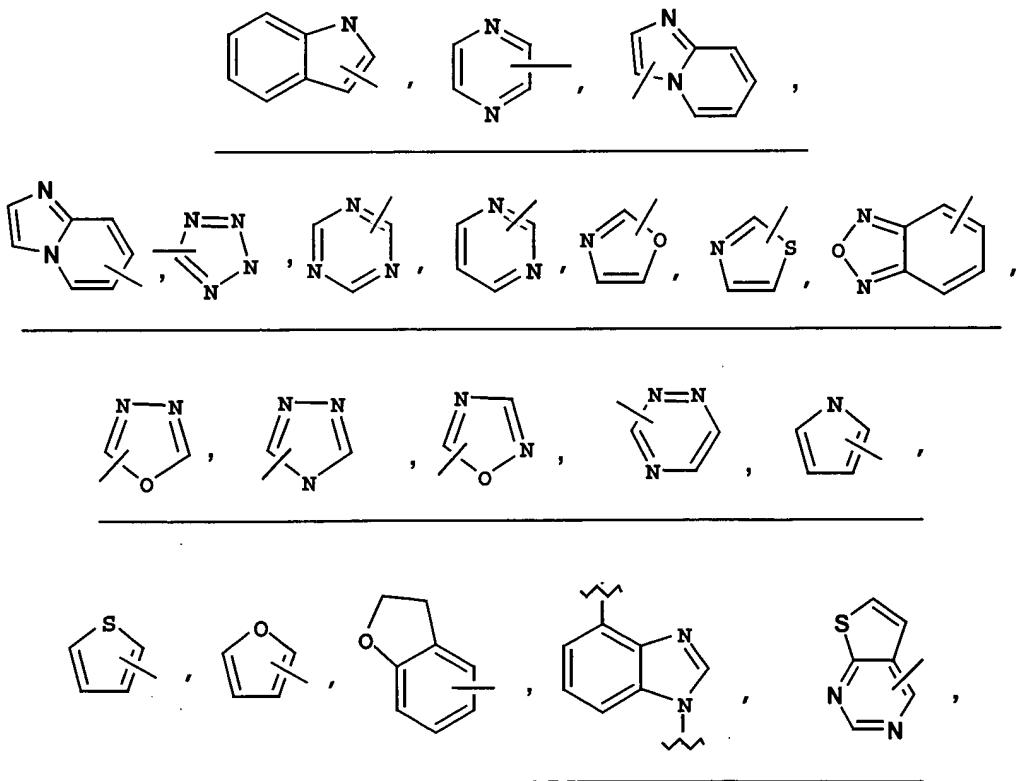
(where Q is O or H₂ and n' is 0, 1, 2 or 3) or

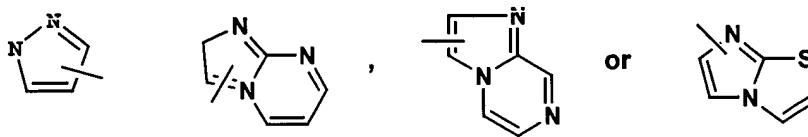
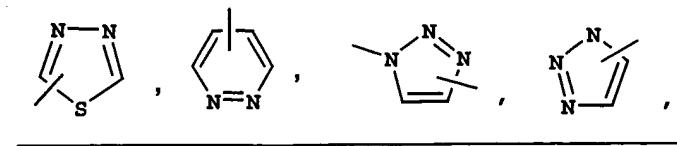


R⁶, R⁷, R⁸, R^{8a} and R⁹ are the same or different and are independently hydrogen, alkyl, haloalkyl, aryl, heteroaryl, arylalkyl, cycloalkyl, (cycloalkyl)alkyl, or cycloheteroalkyl;

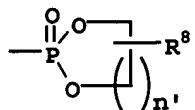
and R¹ may be unsubstituted or substituted with from one to five substituents;

and wherein the R¹ heteroaryl group is selected from

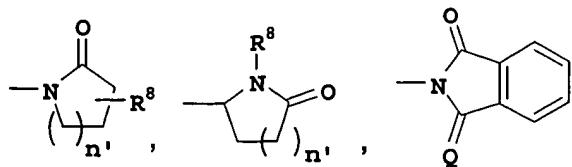




R^2 , R^3 and R^4 are the same or different and are independently H, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyoxy, (alkyl or aryl)3Si (where each alkyl or aryl group is independent), cycloalkyl, cycloalkenyl, amino, alkylamino, dialkylamino, alkenylamino, alkynylamino, arylalkylamino, aryl, arylalkyl, arylamino, aryloxy, cycloheteroalkyl, cycloheteroalkylalkyl, heteroaryl, heteroarylamino, heteroaryloxy, arylthio, arylsulfinyl, arylsulfonyl, thio, alkylthio, alkylsulfinyl, alkylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, halogen, haloalkyl, polyhaloalkyl, polyhaloalkoxy, aminothio, aminosulfinyl, aminosulfonyl, alkylsulfonylamino, alkenylsulfonylamino, alkynylsulfonylamino, arylsulfonylamino, heteroarylsulfonylamino, alkylaminocarbonyl, arylaminocarbonyl, heteroarylaminocarbonyl, hydroxy, acyl, carboxy, aminocarbonyl, alkylcarbonyl, alkoxycarbonyl, alkylcarbonyloxy, alkylcarbonylamino, arylcarbonyl, arylcarbonyloxy, arylcarbonylamino, heteroarylcarbonyl, heteroarylcarbonyloxy, heteroarylcarbonylamino, cyano, nitro, alkenylcarbonylamino, alkynylcarbonylamino, alkylaminocarbonylamino, alkenylaminocarbonylamino, alkynylaminocarbonylamino, arylaminocarbonylamino, heteroarylaminocarbonylamino, alkoxy carbonylamino, alkenyloxycarbonylamino, alkynyloxycarbonylamino, aryloxycarbonylamino, heteroaryloxycarbonylamino, aminocarbonylamino, alkylaminocarbonyloxy, alkoxy carbonylamino, I,I-(alkoxyl or aryloxy)2alkyl (where the two aryl or alkyl substituents can be independently defined, or linked to one another to form a ring), $S(O)_2R^6R^7$, $-NR^6(C=NR^7)alkyl$, $-NR^6(C=NR^7)alkenyl$, $-NR^6(C=NR^7)alkynyl$, $-NR^6(C=NR^7)heteroaryl$, $-NR^8(C=NCN)-amino$,



pyridine-N-oxide,

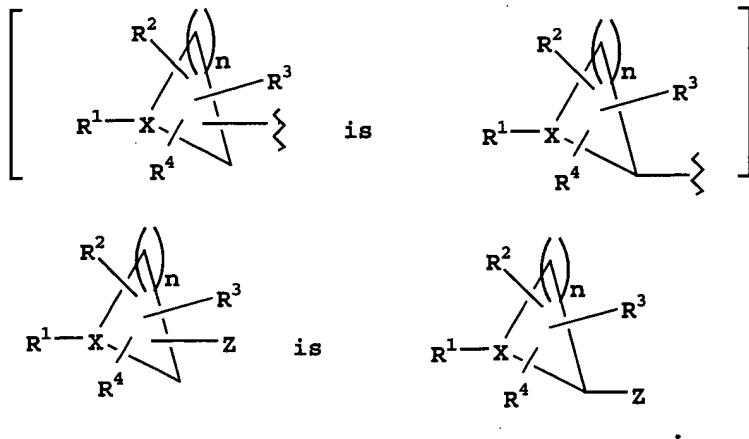


(where Q is O or H₂ and n' is 0, 1, 2 or 3) or

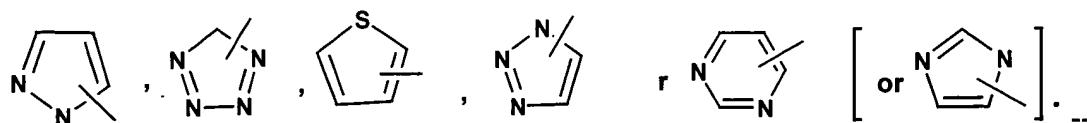
tetrazolyl, pyrazolyl, pyridyl, thiazolyl, pyrimidinyl, imidazole, oxazole, or triazole, -PO(R¹³)(R¹⁴), (where R¹³ and R¹⁴ are independently alkyl, aryl, alkoxy, aryloxy, heteroaryl, heteroarylalkyl, heteroaryloxy, heteroarylalkoxy, cycloheteroalkyl, cycloheteroalkylalkyl, cycloheteroalkoxy, or cycloheteroalkylalkoxy); and may be optionally independently substituted with from one to five substituents, which may be the same or different;

including pharmaceutically acceptable salts thereof, prodrugs thereof, and all stereoisomers thereof]; with the provisos that (1) where Z is imidazol-4-yl or 5-alkylimidazol-4-yl or 5-cycloalkylimidazol-4-yl, then R¹ cannot be or include a benzoxazole, benzthiazole, or benzimidazole and (2) R¹ is exclusive of 3-(1-benzimidazolonyl)-propyl]. --

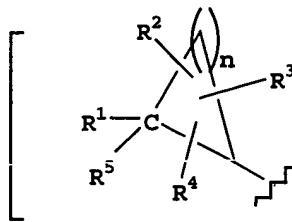
--14. (Amended) The compound as defined in Claim I wherein the moiety



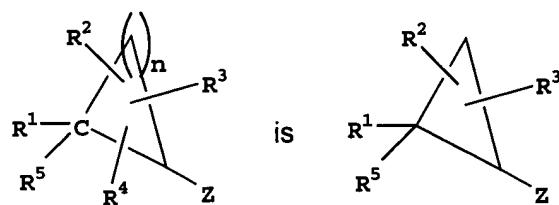
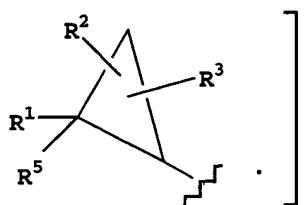
--19. (Twice Amended) The compound as defined in Claim I wherein R¹ is



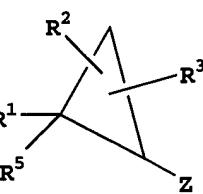
--21. (Amended) The compounds as defined in Claim 11 wherein



is

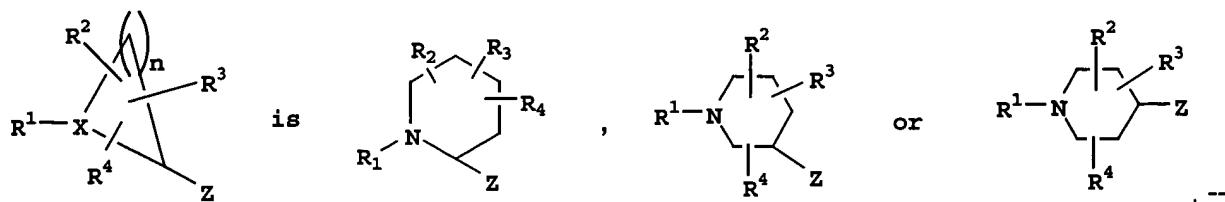
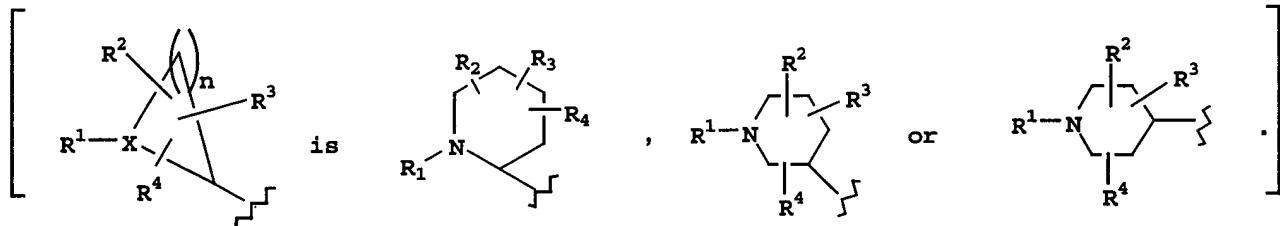


is

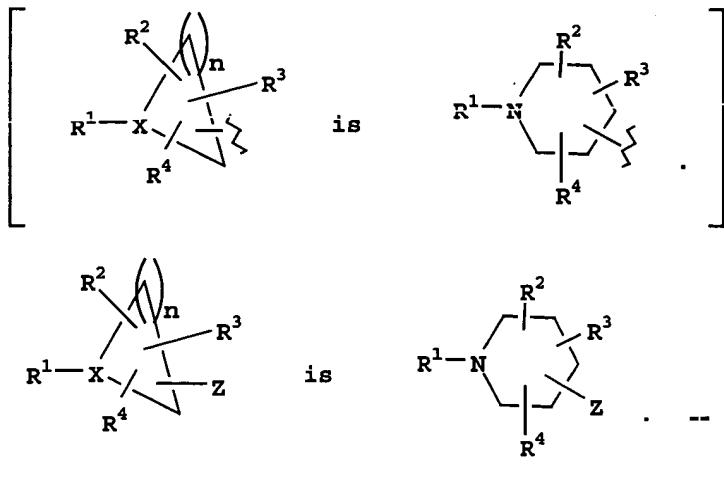


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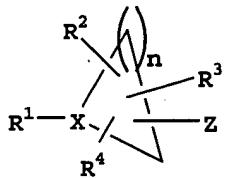
--22. (Twice Amended) The compound as defined in Claim 14 wherein



--24. (Twice Amended) The compound as defined in Claim 14 wherein



--64. (Amended) A compound having the structure



wherein n is 4;

X is N;

Z is a heteroaryl group;

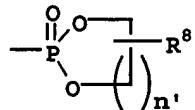
R¹ is [heteroaryl] tetrazolyl, pyrazolyl, thiazolyl, pyrimidinyl, [imidazole,] , oxazole, or triazole;

R⁶, R⁷, R⁸, R^{8a} and R⁹ are the same or different and are independently hydrogen, alkyl, haloalkyl, aryl, heteroaryl, arylalkyl, cycloalkyl, (cycloalkyl)alkyl, or cycloheteroalkyl;

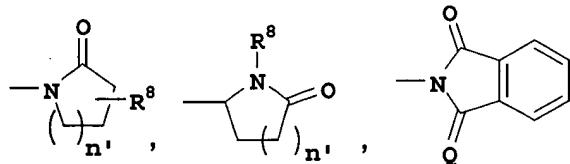
and R¹ may be unsubstituted or substituted with from one to five substituents;

R², R³ and R⁴ are the same or different and are independently H, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkynyloxy, (alkyl or aryl)₃Si (where each alkyl or aryl group is independent), cycloalkyl, cycloalkenyl, amino, alkylamino, dialkylamino, alkenylamino, alkynylamino, arylalkylamino, aryl, arylalkyl, arylamino, aryloxy, cycloheteroalkyl, cycloheteroalkylalkyl, heteroaryl, heteroarylarnino, heteroaryloxy, arylthio, arylsulfinyl, arylsulfonyl, thio, alkylthio, alkylsulfinyl, alkylsulfonyl, heteroarylthio, heteroarylsulfinyl, heteroarylsulfonyl, halogen, haloalkyl, polyhaloalkyl,

polyhaloalkoxy, aminothio, aminosulfinyl, aminosulfonyl, alkylsulfonylamino, alkenylsulfonylamino, alkynylsulfonylamino, arylsulfonylamino, heteroarylsulfonylamino, alkylaminocarbonyl, arylaminocarbonyl, heteroarylaminocarbonyl, hydroxy, acyl, carboxy, aminocarbonyl, alkylcarbonyl, alkoxy carbonyl, alkylcarbonyloxy, alkylcarbonylamino, arylcarbonyl, arylcarbonyloxy, arylcarbonylamino, heteroarylcarbonyl, heteroarylcarbonyloxy, heteroarylcarbonylamino, cyano, nitro, alkenylcarbonylamino, alkynylcarbonylamino, alkylaminocarbonylamino, alkenylaminocarbonylamino, alkynylaminocarbonylamino, arylaminocarbonylamino, heteroarylaminocarbonylamino, alkoxy carbonylamino, alkenyloxycarbonylamino, alkynyloxycarbonylamino, aryloxycarbonylamino, heteroaryloxycarbonylamino, aminocarbonylamino, alkylaminocarbonyloxy, alkoxy carbonylamino, I,I-(alkoxyl or aryloxy)2alkyl (where the two aryl or alkyl substituents can be independently defined, or linked to one another to form a ring), S(O)₂R⁶R⁷, -NR⁶(C=NR⁷)alkyl, -NR⁶(C=NR⁷)alkenyl, -NR⁶(C=NR⁷)alkynyl, -NR⁶(C=NR⁷)heteroaryl, -NR⁸(C=NCN)-amino,



pyridine-N-oxide,



(where Q is O or H₂ and n' is 0, 1, 2 or 3) or

$\begin{array}{c} \text{NR}^8\text{R}^9 \\ | \\ -\text{C}=\text{CH}-\text{C}(=\text{O})-\text{R}^{8a} \end{array}$; tetrazolyl, pyrazolyl, pyridyl, thiazolyl, pyrimidinyl, imidazole, oxazole, or triazole, -PO(R¹³)(R¹⁴), (where R¹³ and R¹⁴ are independently alkyl, aryl, alkoxy, aryloxy, heteroaryl, heteroarylalkyl, heteroaryloxy, heteroarylalkoxy, cycloheteroalkyl, cycloheteroalkylalkyl, cycloheteroalkoxy, or cycloheteroalkylalkoxy); and may be optionally independently substituted with from one to five substituents, which may be the same or different;

including pharmaceutically acceptable salts thereof, prodrugs thereof, and all stereoisomers thereof; with the proviso that where Z is imidazole-4-yl, 5-alkylimidazol-4-yl or 5-cyclohexylimidazol-4-yl, then R¹ cannot be benzoxazole, benzthiazole, benzimidazole or pyridine].--

--71. (Amended) The compound as defined in Claim 64 wherein R¹ is

